AMENDMENTS TO THE CLAIMS

Listing Of Claims

Claims 1-57 (canceled)

- 58. (original) A semiconductor probe card comprising:
 - a probe card substrate;
- an interconnect mounted to the probe card substrate having a first side and an opposing second side;
- a first contact on the first side of the interconnect, the first contact comprising a conductive layer configured to electrically engage a second contact on a semiconductor wafer;
- a conductive member comprising a laser machined opening in the interconnect extending from the conductive layer to the second side, the opening at least partially filled with a conductive material in contact with the conductive layer; and
- a pad on the second side in electrical contact with the conductive member, the pad configured for electrical engagement with an electrical connector.
- 59. (original) The probe card of claim 58 wherein the first contact comprises a recess and the opening extends through the recess.
- 60. (original) The probe card of claim 58 wherein the first contact comprises a projection having a penetrating member for penetrating the second contact.

- 61. (original) The probe card of claim 58 wherein the first contact comprises a recess having a penetrating member form penetrating the second contact.
- 62. (original) The probe card of claim 58 wherein the opening includes a longitudinal axis and the pad has a centerline offset the axis.
- 63. (currently amended) A semiconductor package comprising:
- a semiconductor die having comprising a face with and a bumped contact thereon on the face;

an interconnect placed on the face and having a first side and an opposing second side;

the interconnect comprising:

- a contact on the first side , the contact comprising a recess covered by a conductive layer bonded to the bumped contact;
- a laser machined opening through the interconnect to the second side;
- a conductive member formed in the comprising an opening extending from the first side to the second side and a conductive material in the opening in contact with the conductive layer; and
- a pad formed an external contact on the second side in contact electrical communication with the conductive member.
- 64. (currently amended) The package of claim 63 further comprising an underfill layer formed between the first side of the interconnect and the face of the die.
- 65. (currently amended) The package of claim 63 wherein the conductive member comprises <u>a metal or</u> a conductive polymer deposited in the opening.

66. (currently amended) The package of claim 63 wherein the external contact comprises a ball. further comprising a contact ball on the pad.

Claims 67-74 (canceled)

- 75. (original) A multi chip module comprising:
- an interconnect having a first side and an opposing second side:
- a plurality of first contacts on the first side of the interconnect, the plurality of first contacts comprising conductive layers;
- a plurality of conductive members comprising laser machined openings in the interconnect extending from the conductive layers to the second side, the openings at least partially filled with a conductive material in contact with the conductive layers; and
- a plurality of the semiconductor components mounted to the interconnect with a plurality of second contacts on the components electrically engaging the plurality of first contacts on the interconnects.
- 76. (original) The module of claim 75 wherein the first contacts comprise raised members with penetrating members and the second contacts comprise planar bond pads.
- 77. (original) The module of claim 75 wherein the first contacts comprise recesses at least partially covered by the conductive layers and configured to retain the first contacts.
- 78. (previously presented) An interconnect for a semiconductor component having an external contact comprising:
- a substrate having a first side and an opposing second side;

- a first contact on the first side configured to make an electrical connection with the external contact;
 - a second contact on the second side; and
- a conductive member in electrical communication with the first contact and the second contact, the conductive member comprising a laser machined opening through the substrate, and a conductive material in the opening in contact with the conductive layer.
- 79. (previously presented) The interconnect of claim 78 wherein the conductive member, the first contact and the second contact have coincident center lines.
- 80. (previously presented) The interconnect of claim 78 wherein the conductive member, and the first contact have coincident center lines.
- 81. (previously presented) The interconnect of claim 78 wherein the second contact comprises a pad.
- 82. (previously presented) The interconnect of claim 78 wherein the second contact comprises a contact ball.
- 83. (previously presented) An interconnect for a semiconductor component having an external contact comprising:
- a substrate having a first side and an opposing second side;
- a first contact on the first side configured to electrically engage the external contact;
 - a second contact on the second side;
- a laser machined opening through the first contact, the substrate and the second contact; and
- a conductive material in the opening in contact with the first contact and the second contact.

- 84. (previously presented) The interconnect of claim 83 wherein the conductive material comprises a metal at least partially filling the opening.
- 85. (previously presented) The interconnect of claim 83 wherein the conductive material comprises a metal layer on a surface of the opening.
- 86. (previously presented) The interconnect of claim 83 wherein the conductive member, and the first contact have coincident center lines.
- 87. (previously presented) The interconnect of claim 83 wherein the conductive member, the first contact and the second contact have coincident center lines.
- 88. (previously presented) The interconnect of claim 83 wherein the second contact comprises a pad.
- 89. (previously presented) The interconnect of claim 83 wherein the second contact comprises a contact ball.
 - 90. (new) A semiconductor package comprising:
- a semiconductor die comprising a plurality of first contacts;
 - an interconnect attached to the die comprising:
- a substrate having a first side and an opposing second side;
- a plurality of second contacts on the first side bonded to the first contacts on the die;
- a plurality of conductive members in the substrate in electrical communication with the second contacts comprising openings extending from the first side to the second side and a conductive material in the openings; and
- a plurality of third contacts on the second side in electrical communication with the conductive members.

- 91. (new) The package of claim 90 wherein the substrate comprises a semiconductor material.
- 92. (new) The package of claim 90 wherein the substrate comprises a ceramic material or a glass filled resin material.
- 93. (new) The package of claim 90 wherein the first contacts comprise bumps and the second contacts comprise recesses and conductive layers on the recesses bonded to the bumps.
- 94. (new) The package of claim 90 wherein the third contacts comprise balls.
- 95. (new) The package of claim 90 further comprising an underfill layer between the die and the interconnect.
 - 96. (new) A semiconductor package comprising:

an interconnect comprising a substrate having a first side and an opposing second side, a plurality of contacts on the first side, a plurality of conductive members comprising openings in the substrate extending from the first side to the second side and a conductive material in the openings, and a plurality of external contacts on the second side in electrical communication with the conductive members; and

- a semiconductor die having a face attached to the first side in electrical communication with the contacts.
- 97. (new) The package of claim 96 further comprising an underfill layer between the face and the first side.
- 98. (new) The package of claim 96 wherein the contacts comprise bumps.

- 99. (new) The package of claim 96 wherein the external contacts comprise balls.
- 100. (new) The package of claim 96 wherein the substrate comprises a semiconductor material.
- 101. (new) The package of claim 96 wherein the substrate comprises a ceramic material.
- 102. (new) The package of claim 96 wherein the substrate comprises a glass filled resin.